

**Draft Industrial Area
Sampling and Analysis Plan
Addendum #IA-03-15
IHSS Group 700-7**

August 2003

ADMIN RECORD

IA-A-001599

CEX-105-01

1/26

**Draft Industrial Area
Sampling and Analysis Plan
Addendum #IA-03-15
IHSS Group 700-7**

Approval received from the Colorado Department of Public Health and Environment

()

Approval letter contained in the Administrative Record

August 2003

TABLE OF CONTENTS

1.0 Introduction	1
2.0 Existing UBC, IHSS, AND PAC Information	1
3.0 Sampling.....	9
4.0 References	10

LIST OF TABLES

Table 1 IASAP Addendum #IA-03-15 IHSS Groups	1
Table 2 Potential Contaminants of Concern.....	4
Table 3 Reported or Suspected OPWL Leaks.....	5
Table 4 Sampling Specifications for IHSS Group 700-7	11

LIST OF FIGURES

Figure 1 IHSS Group 700-7 Location Map.....	2
Figure 2 Existing Data Above Background Means Plus Two Standard Deviations, or Method Detection Limits	3
Figure 3 FY04 Sampling Locations for IHSS Group 700-7 (UBC 779, IHSS 700-138, IHSS 700-150.6/150.8, PAC 700-1105, and OPWL Tanks 19, 20 & 38)	7
Figure 4 Building 779 Foundation Slab Detail	8

ACRONYMS

AL	action level
DL	detection limit
DOE	Department of Energy
dpm	disintegrations per minute
ER	Environmental Restoration
FY	Fiscal Year
HPGe	high-purity germanium
HRR	Historical Release Report
IA	Industrial Area
IASAP	Industrial Area Sampling and Analysis Plan
IHSS	Individual Hazardous Substance Site
MDL	method detection limit
mg/kg	milligrams per kilogram
mg/l	milligrams per liter
OPWL	Original Process Waste Line
OU	Operable Unit
PAC	Potential Area of Concern
PCB	polychlorinated biphenyl
pCi/g	picocuries per gram
PCOC	potential contaminant of concern
RFCA	Rocky Flats Cleanup Agreement
RSOP	RFCA Standard Operating Protocol
SAP	Sampling and Analysis Plan
SVOC	semi-volatile organic compound
TPH	total petroleum hydrocarbon
UBC	Under Building Contamination
ug/kg	micrograms per kilogram
UST	underground storage tank
VOC	volatile organic compound

1.0 INTRODUCTION

This Industrial Area (IA) Sampling and Analysis Plan (SAP) (IASAP) Addendum #IA-03-15 includes Individual Hazardous Substance Site (IHSS) Group-specific information, sampling locations, and potential contaminants of concern (PCOCs) for IHSS, Potential Area of Concern (PAC), and Under Building Contamination (UBC) Sites proposed for characterization during Fiscal Year (FY) 04. This IASAP Addendum is a supplement to the IASAP (DOE 2001) and includes data and proposed sampling locations for IHSS Group 700-7 and the associated IHSS, PAC, and UBC Sites listed in Table 1. This IASAP Addendum also includes proposed sampling locations for a portion of IHSS 000-101 that was transferred from the Solar Evaporation Ponds Area of Concern (refer to IASAP Addendum #IA-02-07, ER RSOP Notification #02-08, Closeout Report for IHSS Group 000-1, and Consultative Process Meeting Notes dated 07-24-03). The location of the IHSS Group is shown on Figure 1.

Table 1
IASAP Addendum #IA-03-15 IHSS Groups

IHSS Group	IHSS/PAC/UBC Sites
700-7	UBC 779, Main Plutonium Components Production Facility
	IHSS 700-138, Building 779 Cooling Tower Blow-down
	IHSS 700-150.6, Radioactive Site South of Building 779
	IHSS 700-150.8, Radioactive Site East of Building 779
	PAC 700-1105, Transformer Leak – 779-1/779-2
	IHSS 000-121 Original Process Waste Lines (OPWLs)
	IHSS 000-121, Tank 19-OPWL (Two 1,000-Gallon Concrete Sumps)
	IHSS 000-121, Tank 20-OPWL (Two 8,000-Gallon Concrete Sumps)
	IHSS 000-121, Tank 38-OPWL (1,000-Gallon Steel Tank)
	Portion of IHSS 000-101, Solar Evaporation Ponds (Area North and East of Building 779, including former Auxiliary Pond 2)

2.0 EXISTING UBC, IHSS, AND PAC INFORMATION

Existing information and data for the IHSS, PAC, and UBC Sites are available in Appendix C of the IASAP (DOE 2001), the Industrial Area Data Summary Report (DOE 2000a), the Historical Release Reports for the Rocky Flats Plant (DOE 1992 – 2002) and the Operable Unit 8 Data Summary Report (DOE 1995). Additional sampling data associated with the Building 779 closure project is presented in the Decommissioning Closeout Report for the 779 Closure Project (DOE 2000b). Existing concentrations greater than the background mean plus two standard deviations, or method detection limits (MDLs), are presented in Figure 2. Table 2 presents PCOCs by IHSS, PAC and UBC Site. Table 3 lists known or suspected Original Process Waste Line (OPWL) leak locations within IHSS Group 700-7 in accordance with Rocky Flats Cleanup Agreement (RFCA) Attachment 14 (DOE et al 2003a) and the Draft ER RSOP Modification (DOE 2003b).

Table 2
Potential Contaminants of Concern

IHSS Group	IHSS/PAC/UBC Site	PCOCs	Media	Sources	Sampling Type
700-7	UBC 779, Main Plutonium Components Production Facility	Radionuclides Metals SVOCs VOCs	Soil Beneath Bldg 779 Slab, including under/adjacent to pits, OPWLs, OPWL Cleanouts, Sanitary Drains, Trenches, and Release Site	HRR (DOE 1992-2002) Process knowledge (IA Data Summary [DOE 2000a] & IASAP [DOE 2001]) Decommissioning Closeout Report (DOE 2000b)	Biased locations
	IHSS 700-138, Bldg 779 Cooling Tower Blow-down	Radionuclides Metals	Surface and Subsurface Soil Near Cooling Tower Slabs	HRR (DOE 1992-2002) Process knowledge (IASAP [DOE 2001])	Biased locations
	IHSS 700-150.6, Radioactive Site South of Bldg 779	Radionuclides Metals SVOCs VOCs	Surface and Subsurface Soil Associated With Historical Activities	HRR (DOE 1992-2002) Process knowledge (IASAP [DOE 2001]) OU 8 Data Summary (DOE 1995)	No Additional Sampling Based on Existing Data (DOE 1995)
	IHSS 700-150.8, Radioactive Site East of Bldg 779	Radionuclides Metals SVOCs VOCs	Surface and Subsurface Soil Associated With Historical Activities	HRR (DOE 1992-2002) Process knowledge (IASAP [DOE 2001]) OU 8 Data Summary (DOE 1995)	No Additional Sampling Based on Existing Data (DOE 1995)
	PAC 700-1105, Transformer Leak - 779-1/779-2	PCBs Radionuclides	Surface and Subsurface Soil Around Two Transformer Slabs	HRR (DOE 1992-2002) Process knowledge (IASAP [DOE 2001])	Biased locations
	IHSS 000-121, Tanks 19, 20 & 38 -OPWL	Radionuclides Metals SVOCs VOCs	Subsurface Soil Under Bldg 779 Basement Slab	HRR (DOE 1992-2002) Process knowledge (IASAP [DOE 2001])	Biased locations
	IHSS 000-121 OPWLs	Radionuclides Metals VOCs	Subsurface Soil Adjacent and Below Lines	HRR (DOE 1992-2002) Process knowledge (IASAP [DOE 2001])	Biased locations
	Portion of IHSS 000-101, Solar Evaporation Ponds	Radionuclides Metals VOCs	Surface and Subsurface Soil	HRR (DOE 1992-2002) Process knowledge (IASAP [DOE 2001])	Statistical grid and biased locations

HRR - Historical Release Report; OU - Operable Unit;

PCBs - polychlorinated biphenyls; SVOCs - semi-volatile organic compounds; and VOCs - volatile organic compounds

Table 3
Reported or Suspected OPWL Leaks

Leak Designation	Pipe Description	Depth	Leak Description	IHSS Group	Addendum	Sampling Location*
P-36/37/38	3-inch PVC and stainless steel/3-inch steel, PVC, and vitrified clay/ 6-inch and 10-inch vitrified clay pipe	Approximately 3 to 5 feet	Leak suspected at pipe joint	700-7	IA-03-15	CJ46-005
P-38	6-inch and 10-inch vitrified clay pipe	Approximately 3 to 5 feet	Leak suspected in line segment	700-7	IA-03-15	CI46-000 CI46-001
P-42	3-inch cast-iron or stainless steel pipe	Approximately 3.5 feet	Area around Building 779 was reported to have a pipeline release	700-7	IA-03-15	CH45-001 CH46-011 CH46-012 CH46-013

Building 779 was demolished to its main foundation slab during FY 00. The remaining slab contains an extensive network of OPWLs (PW piping), process waste trenches, sanitary drains, and various branch connections from site utilities (see Figures 3 and 4). Several pits also exist below the slab, including:

- Four pits (1A, 2A, 2B, and the T5 tank pit) located in the basement area, which is approximately 29 feet long by 20 feet wide by 20 feet deep;
- Two elevator shafts (approximately 6 feet long by 7 feet wide by 3 feet deep);
- One plenum deluge drain pit (approximately 6 feet long by 4 feet wide by 4 feet deep); and
- A pump pit (approximately 6 feet long by 4 feet wide by 4 feet deep).

During the demolition project, most of the 779 slab was decontaminated to levels less than the surface contamination guidelines specified in Table 7-1 of DOE Order 5400.5, Radiation Protection of the Public and Environment. Fixed contamination above the surface contamination guidelines exists in isolated areas on the basement floor and within the paint/wall matrix of the south basement wall (DOE 2000b). A radiological survey of the T5 tank pit also indicated total surface contamination is present on the floors and north pit wall at levels in excess of the guidelines (up to 992 disintegrations per minute per 100 square centimeters). Contaminated process waste drains penetrating the foundation slabs were filled to grade with grout. Pipe and conduit openings in the building slab were plugged and grouted at the foundation level. Note: the process waste drains and lines beneath the 779 slab were not cleaned or rinsed prior to filling the drains with grout.

A 35-foot by 2.5-foot area of concrete slab was removed to soil at the north sides of Rooms 126, 131 and 133. Samples were collected from soil beneath the concrete prior to backfilling the area with grout. Plutonium-239/240 was detected in soil at activities of up to 97,320 picocuries per gram (pCi/g). No soil remediation was conducted.

Dielectric fluid containing PCBs leaked from Transformers 779-1 and 779-2, formerly located on the northeast side of 779 adjacent to the south side of the 779 loading dock. Surface soil samples were collected at six locations around the transformer pads for PCB and isotopic analyses. Aroclor-1260 was detected in all six samples, from 15 to 680 milligrams per kilogram (mg/kg). Plutonium-239/240 was detected in all samples; the highest activity was 115 pCi/g.

The IHSS 000-121 tanks (Tanks 19, 20 and 38) are reportedly located within the Building 779 basement area. Tank 19 consists of two 1,000-gallon concrete sumps, Tank 20 consists of two 8,000-gallon concrete sumps, and Tank 38 is a 1,000-gallon steel tank associated with the process waste system. No existing data on these tanks are available, and no specific references to these tanks were found in the Historical Release Report documents, the Building 779 Decommissioning Closeout Report, or engineering drawings reviewed for developing this IASAP Addendum. The location of these tanks will be verified when the basement is opened at the time of remediation.

12

Legend

Pit cover
 Plate over fixed contamination
 Pit access plate

Isolation points
 1 - CWS/R, drained and grouted
 2 - FW, plugged and grouted
 3 - FW, plugged, grouted, and blind flanged
 4 - DCW, plugged and grouted
 5 - CWS/R (6 lines), drained, plugged and grouted (end on east side of road)
 6 - TWS/R, drained, plugged and grouted

PW piping (grouted at floor)
 PW trench (plated)
 PW clean-out (non-contam., grouted)
 PW clean-out (contaminated, plated)
 Sanitary drain (grouted)

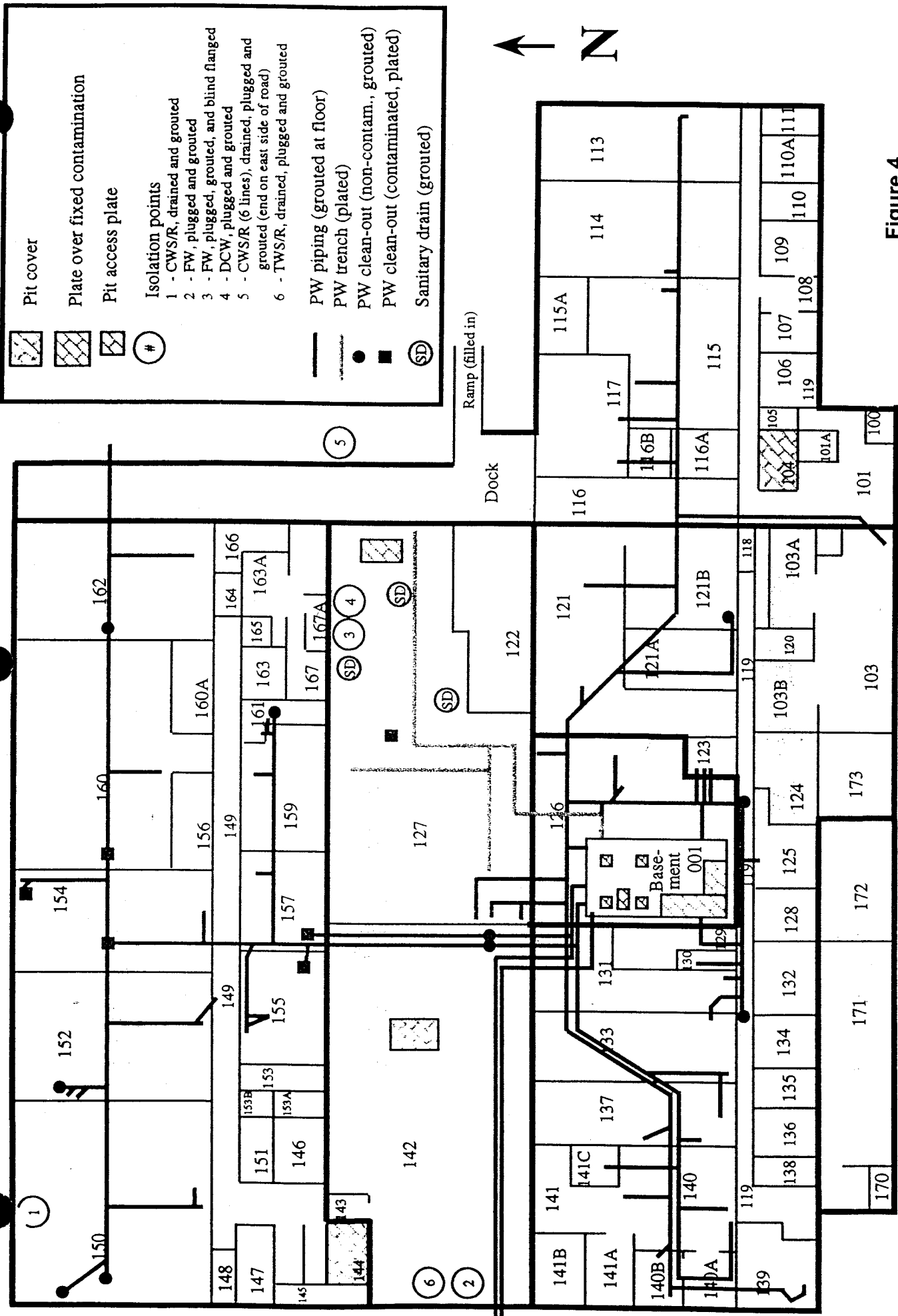


Figure 4
Building 779 Foundation Slab Details

A portion of IHSS 000-101 has been transferred to IHSS Group 700-7. This area includes the areas north and east of UBC 779 as shown on Figure 3. The area east of UBC 779 was the former site of Auxiliary Solar Evaporation Pond 2, which was removed in 1962 (DOE 2002). Cooling tower foundation slabs (Buildings 784, 785 and 786) now occupy this area.

One 500-gallon diesel underground storage tank (UST) is located immediately south of the former 779 loading dock area, and one 3,000-gallon diesel UST is located adjacent to the west side of the 727 foundation slab. Both tanks were closed in-place in 1997 using polyurethane foam (DOE 1998). Soil samples were collected from Geoprobe® soil borings placed near the tanks. The soil samples were analyzed for total petroleum hydrocarbon (TPH) concentrations using approved immunoassay field test methods. TPH was not detected above 5,000 mg/kg in any of the soil samples (DOE 1998).

3.0 SAMPLING

The proposed sampling and analysis specifications for each IHSS, PAC, and UBC Site are listed, by sample location, in Table 4. The proposed sampling locations are shown in Figure 3. After characterization starts, the number and type of samples may change based on field conditions and/or sampling results. Changes to sampling specifications will be considered in consultation with the regulatory agencies.

Three types of sampling strategies are used to determine sampling locations: statistical, geostatistical and biased. Statistical grids have computer-generated random start points and orientations. The standard statistical grid size (i.e., the length between grid points) is 36 feet, however, the grid size for UBC sites is 72 feet. Additionally, the statistical grids have been extended outside the IHSS, PAC, or UBC Site to provide additional sampling locations if needed. Biased samples supplement the statistical grid locations. Biased sampling locations within a building foundation footprint may be adjusted in the field to better collect samples from specific building features (e.g., Building 779 basement, pits, tunnels and trenches). Geostatistical methods were not used at IHSS Group 700-7.

UBC 779 will be characterized using biased sampling locations. Areas adjacent to OPWLs, OPWL cleanouts, trenches, pits, and sanitary drains will be sampled. Samples will also be taken from beneath the basement area and from soil on the north side of Rooms 126, 131 and 133. Other biased sampling locations include PAC 700-1105, IHSS 700-138, and locations along the OPWL outside UBC 779.

Samples based on statistical sampling locations will be taken from the portion of IHSS 000-101 located within IHSS Group 700-7.

Based upon the existing data for IHSS 150.6 and IHSS 150.8 presented in Figure 2, no additional samples will be collected for characterization purposes within these IHSSs. Ten locations were sampled, and all analytical results were less than the RFCA ALs with one exception. The lead concentration at location SS809293 was 32.2 mg/kg, and the Ecological Receptor AL is 25.6 mg/kg. However, the lead concentration is below the background mean plus two standard deviations value. A no-further-action recommendation with these historical data will be presented in the 2003 HRR Annual Update.

Surface soil samples will be collected from the area north of 779. Surface and subsurface soil samples will be taken from the east area, based upon process knowledge and the former location of Auxiliary Solar Evaporation Pond 2. This area also includes the cooling tower slabs and IHSS 700-138.

4.0 REFERENCES

DOE 1995, Operable Unit 8 Data Summary Report, Rocky Mountain Remediation Services, Rocky Flats Environmental Technology Site, Golden, Colorado, September.

DOE 1998, Closure Report Design-Build Underground Storage Tank Replacement Project, Rocky Flats Environmental Technology Site, Golden, Colorado, April.

DOE 2000a, Rocky Flats Environmental Technology Site Industrial Area Data Summary Report, Golden, Colorado, September.

DOE 2000b, Decommissioning Closeout Report for the 779 Closure Project, Revision 0, Rocky Flats Environmental Technology Site, Golden, Colorado, April.

DOE 1992-2002, Historical Release Reports for the Rocky Flats Plant, Golden, Colorado.

DOE 2001, Industrial Area Sampling and Analysis Plan, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE 2002, Final Proposed Action Memorandum for IHSS 101 and RCRA Closure of the RFETS Solar Evaporation Ponds, Rocky Flats Environmental Technology Site, Golden, Colorado, December.

DOE, CDPHE, and EPA 2003a, Modifications to the Rocky Flats Cleanup Agreement Attachments, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

DOE 2003b, Draft Environmental Restoration RFCA Standard Operating Protocol Modification, Rocky Flats Environmental Technology Site, Golden, Colorado, June.

Table 4
Sampling Specifications for IHSS Group 700-7

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
700-7	UBC 779 Basement Pits	CH45-061	2084290.341	750505.513	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-061	2084290.341	750505.513	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-061	2084290.341	750505.513	Subsurface Soil	0 - 0.5'	SVOCs	N/A	8270
		CH45-061	2084290.341	750505.513	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-062	2084300.966	750505.735	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-062	2084300.966	750505.735	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-062	2084300.966	750505.735	Subsurface Soil	0 - 0.5'	SVOCs	N/A	8270
		CH45-062	2084300.966	750505.735	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-063	2084290.12	750488.027	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-063	2084290.12	750488.027	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-063	2084290.12	750488.027	Subsurface Soil	0 - 0.5'	SVOCs	N/A	8270
		CH45-063	2084290.12	750488.027	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-064	2084301.187	750488.027	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-064	2084301.187	750488.027	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-064	2084301.187	750488.027	Subsurface Soil	0 - 0.5'	SVOCs	N/A	8270
		CH45-064	2084301.187	750488.027	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
700-7	UBC 779 Elevator Pit	CH45-065	2084295.432	750496.881	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-065	2084295.432	750496.881	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-065	2084295.432	750496.881	Subsurface Soil	0 - 0.5'	SVOCs	N/A	8270
		CH45-065	2084295.432	750496.881	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH46-017	2084215.736	750583.906	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	
		CH46-017	2084215.736	750583.906	Subsurface Soil	0 - 0.5'	Metals	6200	
		CH46-017	2084215.736	750583.906	Subsurface Soil	0 - 0.5'	SVOCs	N/A	
		CH46-017	2084215.736	750583.906	Subsurface Soil	0 - 0.5'	VOCs	8260	
		CI45-006	2084377.567	750470.307	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	
		CI45-006	2084377.567	750470.307	Subsurface Soil	0 - 0.5'	Metals	6200	
700-7	UBC 779 OPWL Cleanout	CI45-006	2084377.567	750470.307	Subsurface Soil	0 - 0.5'	SVOCs	N/A	
		CH46-020	2084294.841	750629.467	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
700-7	UBC 779 OPWL Under Slab	CH46-020	2084294.841	750629.467	Subsurface Soil	0 - 0.5	Metals	6200	N/A
		CH46-020	2084294.841	750629.467	Subsurface Soil	0 - 0.5	VOCs	8260	N/A
		CH46-021	2084283.68	750630.124	Subsurface Soil	0 - 0.5	Radionuclides	HPGe	N/A
		CH46-021	2084283.68	750630.124	Subsurface Soil	0 - 0.5	Metals	6200	N/A
		CH46-021	2084283.68	750630.124	Subsurface Soil	0 - 0.5	VOCs	8260	N/A
		CH46-022	2084286.306	750652.445	Subsurface Soil	0 - 0.5	Radionuclides	HPGe	N/A
		CH46-022	2084286.306	750652.445	Subsurface Soil	0 - 0.5	Metals	6200	N/A
		CH46-022	2084286.306	750652.445	Subsurface Soil	0 - 0.5	VOCs	8260	N/A
		CH46-023	2084288.275	750591.39	Subsurface Soil	0 - 0.5	Radionuclides	HPGe	N/A
		CH46-023	2084288.275	750591.39	Subsurface Soil	0 - 0.5	Metals	6200	N/A
		CH46-023	2084288.275	750591.39	Subsurface Soil	0 - 0.5	VOCs	8260	N/A
		CH46-024	2084279.741	750592.703	Subsurface Soil	0 - 0.5	Radionuclides	HPGe	N/A
		CH46-024	2084279.741	750592.703	Subsurface Soil	0 - 0.5	Metals	6200	N/A
		CH46-024	2084279.741	750592.703	Subsurface Soil	0 - 0.5	VOCs	8260	N/A
		CH45-028	2084230.366	750477.146	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH45-028	2084230.366	750477.146	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH45-028	2084230.366	750477.146	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH45-028	2084230.366	750477.146	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH45-028	2084230.366	750477.146	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH45-028	2084230.366	750477.146	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CH45-029	2084268.56	750501.451	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH45-029	2084268.56	750501.451	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH45-029	2084268.56	750501.451	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH45-029	2084268.56	750501.451	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH45-029	2084268.56	750501.451	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH45-029	2084268.56	750501.451	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CH45-031	2084332.796	750497.111	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH45-031	2084332.796	750497.111	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH45-031	2084332.796	750497.111	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH45-031	2084332.796	750497.111	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH45-031	2084332.796	750497.111	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH45-031	2084332.796	750497.111	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
700-7	UBC 779 Pit Under Slab	CH46-026	2084224.289	750622.111	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH46-026	2084224.289	750622.111	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH46-026	2084224.289	750622.111	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH46-026	2084224.289	750622.111	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH46-026	2084224.289	750622.111	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH46-026	2084224.289	750622.111	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CH46-027	2084288.525	750609.958	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH46-027	2084288.525	750609.958	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH46-027	2084288.525	750609.958	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH46-027	2084288.525	750609.958	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH46-027	2084288.525	750609.958	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH46-027	2084288.525	750609.958	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CI45-012	2084399.636	750495.375	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI45-012	2084399.636	750495.375	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CI45-012	2084399.636	750495.375	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CI45-012	2084399.636	750495.375	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CI45-012	2084399.636	750495.375	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CI45-012	2084399.636	750495.375	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CI46-006	2084344.081	750633.396	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI46-006	2084344.081	750633.396	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CI46-006	2084344.081	750633.396	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CI46-006	2084344.081	750633.396	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CI46-006	2084344.081	750633.396	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CI46-006	2084344.081	750633.396	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CH45-011	2084267.776	750557.886	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-011	2084267.776	750557.886	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-011	2084267.776	750557.886	Subsurface Soil	0 - 0.5'	SVOCs	N/A	8270
		CH45-011	2084267.776	750557.886	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CI46-002	2084361.066	750568.674	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-002	2084361.066	750568.674	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-002	2084361.066	750568.674	Subsurface Soil	0 - 0.5'	SVOCs	N/A	8270
		CI46-002	2084361.066	750568.674	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
700-7	UBC 779 Rm 131/133 Release	CH45-057	2084240.317	750523.664	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-057	2084240.317	750523.664	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-057	2084240.317	750523.664	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-057	2084240.317	750523.664	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CH45-057	2084240.317	750523.664	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CH45-057	2084240.317	750523.664	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CH45-058	2084251.827	750523.443	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-058	2084251.827	750523.443	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-058	2084251.827	750523.443	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-058	2084251.827	750523.443	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CH45-058	2084251.827	750523.443	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CH45-058	2084251.827	750523.443	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CH45-059	2084300.966	750523	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-059	2084300.966	750523	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-059	2084300.966	750523	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-059	2084300.966	750523	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CH45-059	2084300.966	750523	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CH45-059	2084300.966	750523	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CH45-060	2084314.026	750523	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-060	2084314.026	750523	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-060	2084314.026	750523	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
700-7	UBC 779 Sanitary Drain	CI45-008	2084344.619	750551.869	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-008	2084344.619	750551.869	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CI45-008	2084344.619	750551.869	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CI46-005	2084342.662	750585.134	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-005	2084342.662	750585.134	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-005	2084342.662	750585.134	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-013	2084304.372	750529.319	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-013	2084304.372	750529.319	Subsurface Soil	0 - 0.5'	Metals	6200	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
700-7	IHSS 700-138	CH45-013	2084304.372	750529.319	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH45-015	2084315.746	750540.152	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-015	2084315.746	750540.152	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH45-015	2084315.746	750540.152	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH46-018	2084319.267	750564.796	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH46-018	2084319.267	750564.796	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH46-018	2084319.267	750564.796	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CH46-019	2084313.851	750582.127	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH46-019	2084313.851	750582.127	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CH46-019	2084313.851	750582.127	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CJ45-010	2084564.396	750545.133	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CJ45-010	2084564.396	750545.133	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CJ45-011	2084541.517	750545.133	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CJ45-011	2084541.517	750545.133	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CJ46-010	2084554.976	750578.779	Subsurface Soil	4.5 - 4.5	Metals	6200	N/A
		CJ46-010	2084554.976	750578.779	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
700-7	PAC 700-1105	CJ46-011	2084580.547	750577.882	Subsurface Soil	4.5 - 4.5	Metals	6200	N/A
		CJ46-011	2084580.547	750577.882	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CI45-000	2084400.287	750539.646	Surface Soil	0 - 0.5'	PCBs	N/A	8082
		CI45-000	2084400.287	750539.646	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-000	2084400.287	750539.646	Subsurface Soil	0.5 - 2.5	PCBs	N/A	8082
		CI45-000	2084400.287	750539.646	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CI45-000	2084400.287	750539.646	Subsurface Soil	2.5 - 4.5	PCBs	N/A	8082
		CI45-000	2084400.287	750539.646	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI45-001	2084410.704	750548.76	Surface Soil	0 - 0.5'	PCBs	N/A	8082
		CI45-001	2084410.704	750548.76	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-001	2084410.704	750548.76	Subsurface Soil	0.5 - 2.5	PCBs	N/A	8082
		CI45-001	2084410.704	750548.76	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CI45-001	2084410.704	750548.76	Subsurface Soil	2.5 - 4.5	PCBs	N/A	8082
		CI45-001	2084410.704	750548.76	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI45-002	2084412.006	750535.739	Surface Soil	0 - 0.5'	PCBs	N/A	8082
		CI45-002	2084412.006	750535.739	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-002	2084412.006	750535.739	Subsurface Soil	0.5 - 2.5	PCBs	N/A	8082

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
		CI45-002	2084412.006	750535.739	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CI45-002	2084412.006	750535.739	Subsurface Soil	2.5 - 4.5	PCBs	N/A	8082
		CI45-002	2084412.006	750535.739	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI45-003	2084426.329	750539.646	Surface Soil	0 - 0.5'	PCBs	N/A	8082
		CI45-003	2084426.329	750539.646	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-003	2084426.329	750539.646	Subsurface Soil	0.5 - 2.5	PCBs	N/A	8082
		CI45-003	2084426.329	750539.646	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CI45-003	2084426.329	750539.646	Subsurface Soil	2.5 - 4.5	PCBs	N/A	8082
		CI45-003	2084426.329	750539.646	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI45-004	2084425.027	750526.625	Surface Soil	0 - 0.5'	PCBs	N/A	8082
		CI45-004	2084425.027	750526.625	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-004	2084425.027	750526.625	Subsurface Soil	0.5 - 2.5	PCBs	N/A	8082
		CI45-004	2084425.027	750526.625	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CI45-004	2084425.027	750526.625	Subsurface Soil	2.5 - 4.5	PCBs	N/A	8082
		CI45-004	2084425.027	750526.625	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI45-005	2084438.048	750533.135	Surface Soil	0 - 0.5'	PCBs	N/A	8082
		CI45-005	2084438.048	750533.135	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-005	2084438.048	750533.135	Subsurface Soil	0.5 - 2.5	PCBs	N/A	8082
		CI45-005	2084438.048	750533.135	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CI45-005	2084438.048	750533.135	Subsurface Soil	2.5 - 4.5	PCBs	N/A	8082
		CI45-005	2084438.048	750533.135	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
700-7	IHSS 000-121, OPWL Outside UBC 779	CH45-001	2084204.782	750523.181	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH45-001	2084204.782	750523.181	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH45-001	2084204.782	750523.181	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH45-001	2084204.782	750523.181	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH45-001	2084204.782	750523.181	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CH46-011	2084200.918	750577.286	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH46-011	2084200.918	750577.286	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH46-011	2084200.918	750577.286	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH46-011	2084200.918	750577.286	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH46-011	2084200.918	750577.286	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
		CH46-011	2084200.918	750577.286	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CH46-012	2084202.85	750646.844	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH46-012	2084202.85	750646.844	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH46-012	2084202.85	750646.844	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH46-012	2084202.85	750646.844	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH46-012	2084202.85	750646.844	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH46-012	2084202.85	750646.844	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CH46-013	2084177.732	750666.165	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CH46-013	2084177.732	750666.165	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CH46-013	2084177.732	750666.165	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CH46-013	2084177.732	750666.165	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CH46-013	2084177.732	750666.165	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CH46-013	2084177.732	750666.165	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CI46-000	2084444.71	750694.842	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI46-000	2084444.71	750694.842	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CI46-000	2084444.71	750694.842	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CI46-000	2084444.71	750694.842	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CI46-000	2084444.71	750694.842	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CI46-000	2084444.71	750694.842	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	Radionuclides	HPGe	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	Metals	6200	N/A
		CI46-001	2084340.544	750694.842	Subsurface Soil	4.5 - 6.5	VOCs	8260	N/A
700-7	Portion of IHSS 000-101	CH45-017	2084296.143	750438.419	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH45-017	2084296.143	750438.419	Surface Soil	0 - 0.5'	Metals	6200	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
		CH46-028	2084289.388	750664.512	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH46-028	2084289.388	750664.512	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CH46-029	2084293.569	750700.268	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH46-029	2084293.569	750700.268	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CH46-030	2084322.444	750678.769	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH46-030	2084322.444	750678.769	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CH46-031	2084326.626	750714.525	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CH46-031	2084326.626	750714.525	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI45-007	2084381.069	750436.168	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-007	2084381.069	750436.168	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI45-013	2084516.209	750456.761	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-013	2084516.209	750456.761	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI45-014	2084520.39	750492.518	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-014	2084520.39	750492.518	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI45-015	2084524.571	750528.274	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI45-015	2084524.571	750528.274	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-007	2084351.32	750657.27	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-007	2084351.32	750657.27	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-008	2084355.501	750693.026	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-008	2084355.501	750693.026	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-009	2084384.376	750671.527	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-009	2084384.376	750671.527	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-010	2084388.558	750707.283	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-010	2084388.558	750707.283	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-011	2084409.07	750614.271	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-011	2084409.07	750614.271	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-012	2084413.251	750650.028	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-012	2084413.251	750650.028	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-013	2084417.433	750685.784	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-013	2084417.433	750685.784	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-014	2084421.614	750721.54	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-014	2084421.614	750721.54	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-015	2084442.127	750628.528	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
		CI46-015	2084442.127	750628.528	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-016	2084446.308	750664.285	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-016	2084446.308	750664.285	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-017	2084450.489	750700.041	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-017	2084450.489	750700.041	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-018	2084475.183	750642.785	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-018	2084475.183	750642.785	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-019	2084479.365	750678.542	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-019	2084479.365	750678.542	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-020	2084483.546	750714.298	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-020	2084483.546	750714.298	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-021	2084504.059	750621.286	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-021	2084504.059	750621.286	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-021	2084504.059	750621.286	Subsurface Soil	0 - 0.5'	VOCs	8260	8270
		CI46-022	2084508.24	750657.042	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-022	2084508.24	750657.042	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-023	2084512.421	750692.799	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-023	2084512.421	750692.799	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CI46-024	2084528.752	750564.03	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CI46-024	2084528.752	750564.03	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ45-012	2084545.084	750435.262	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ45-012	2084545.084	750435.262	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CJ45-012	2084545.084	750435.262	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CJ45-013	2084549.265	750471.018	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ45-013	2084549.265	750471.018	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CJ45-013	2084549.265	750471.018	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CJ45-014	2084553.446	750506.775	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ45-014	2084553.446	750506.775	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ45-016	2084578.14	750506.775	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CJ45-016	2084578.14	750449.519	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ45-016	2084578.14	750449.519	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CJ45-016	2084578.14	750449.519	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CJ45-017	2084582.322	750485.275	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
700-7	Portion of IHSS 000-101 Over Auxiliary Pond 2	CJ45-017	2084582.322	750485.275	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ45-018	2084586.503	750521.032	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ45-018	2084586.503	750521.032	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ45-019	2084590.684	750556.788	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ45-019	2084590.684	750556.788	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-025	2084532.934	750599.787	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-025	2084532.934	750599.787	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-025	2084532.934	750599.787	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CJ46-025	2084532.934	750599.787	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-025	2084532.934	750599.787	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-025	2084532.934	750599.787	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-025	2084532.934	750599.787	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-025	2084532.934	750599.787	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CJ46-014	2084537.115	750635.543	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-014	2084537.115	750635.543	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-014	2084537.115	750635.543	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CJ46-014	2084537.115	750635.543	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-014	2084537.115	750635.543	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-014	2084537.115	750635.543	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-014	2084537.115	750635.543	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-014	2084537.115	750635.543	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CJ46-015	2084541.296	750671.299	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-015	2084541.296	750671.299	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-015	2084541.296	750671.299	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CJ46-015	2084541.296	750671.299	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-015	2084541.296	750671.299	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-015	2084541.296	750671.299	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-015	2084541.296	750671.299	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-015	2084541.296	750671.299	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CJ46-016	2084545.478	750707.056	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-016	2084545.478	750707.056	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-016	2084545.478	750707.056	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A

IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
		CJ46-016	2084545.478	750707.056	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-016	2084545.478	750707.056	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-016	2084545.478	750707.056	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-016	2084545.478	750707.056	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-016	2084545.478	750707.056	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	0 - 0.5'	VOCs	8260	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-018	2084565.99	750614.044	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CJ46-019	2084570.172	750649.8	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-019	2084570.172	750649.8	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-019	2084570.172	750649.8	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CJ46-019	2084570.172	750649.8	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-019	2084570.172	750649.8	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-019	2084570.172	750649.8	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-019	2084570.172	750649.8	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-019	2084570.172	750649.8	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CJ46-020	2084574.353	750685.556	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-020	2084574.353	750685.556	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-020	2084574.353	750685.556	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A
		CJ46-020	2084574.353	750685.556	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-020	2084574.353	750685.556	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-020	2084574.353	750685.556	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-020	2084574.353	750685.556	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-020	2084574.353	750685.556	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A
		CJ46-021	2084578.534	750721.313	Surface Soil	0 - 0.5'	Radionuclides	HPGe	N/A
		CJ46-021	2084578.534	750721.313	Surface Soil	0 - 0.5'	Metals	6200	N/A
		CJ46-021	2084578.534	750721.313	Subsurface Soil	0.5 - 2.5	Radionuclides	HPGe	N/A

26/26

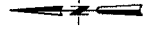
IHSS Group	IHSS/PAC/UBC	Location	Easting	Northing	Media	Depth Interval	Analyte	On-Site Laboratory Method	Off-Site Laboratory Method
		CJ46-021	2084578.534	750721.313	Subsurface Soil	0.5 - 2.5	Metals	6200	N/A
		CJ46-021	2084578.534	750721.313	Subsurface Soil	0.5 - 2.5	VOCs	8260	N/A
		CJ46-021	2084578.534	750721.313	Subsurface Soil	2.5 - 4.5	Radionuclides	HPGe	N/A
		CJ46-021	2084578.534	750721.313	Subsurface Soil	2.5 - 4.5	Metals	6200	N/A
		CJ46-021	2084578.534	750721.313	Subsurface Soil	2.5 - 4.5	VOCs	8260	N/A

Figure 1
IHSS Group 700-7 Location Map

EXPLANATION
IHSS Groupings

- 700 7
- Standard Map Features**
- Buildings and other structures
 - Demolished buildings and other structures
 - Lakes and ponds
 - Streams, ditches, or other drainage features
 - Fences and other barriers
 - Paved roads
 - Dirt roads
 - Solar Evaporation Ponds (SEPs)
 - Industrial Area Operable Unit Boundary

DATA SOURCE MAP FEATURES:
Historical Release Report (HRR)
2nd Annual Update
DOE 1992, HRR Report and Subsequent Updates
DOE 1992, HRR Report and Subsequent Updates
Buildings, fences, hydrography, roads, and other structures from 1992 HRR and Power data
Digitized from the orthophotograph, 1995



State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD27

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:
GIS Dept. 303-866-7707
Prepared for:



July 22, 2003

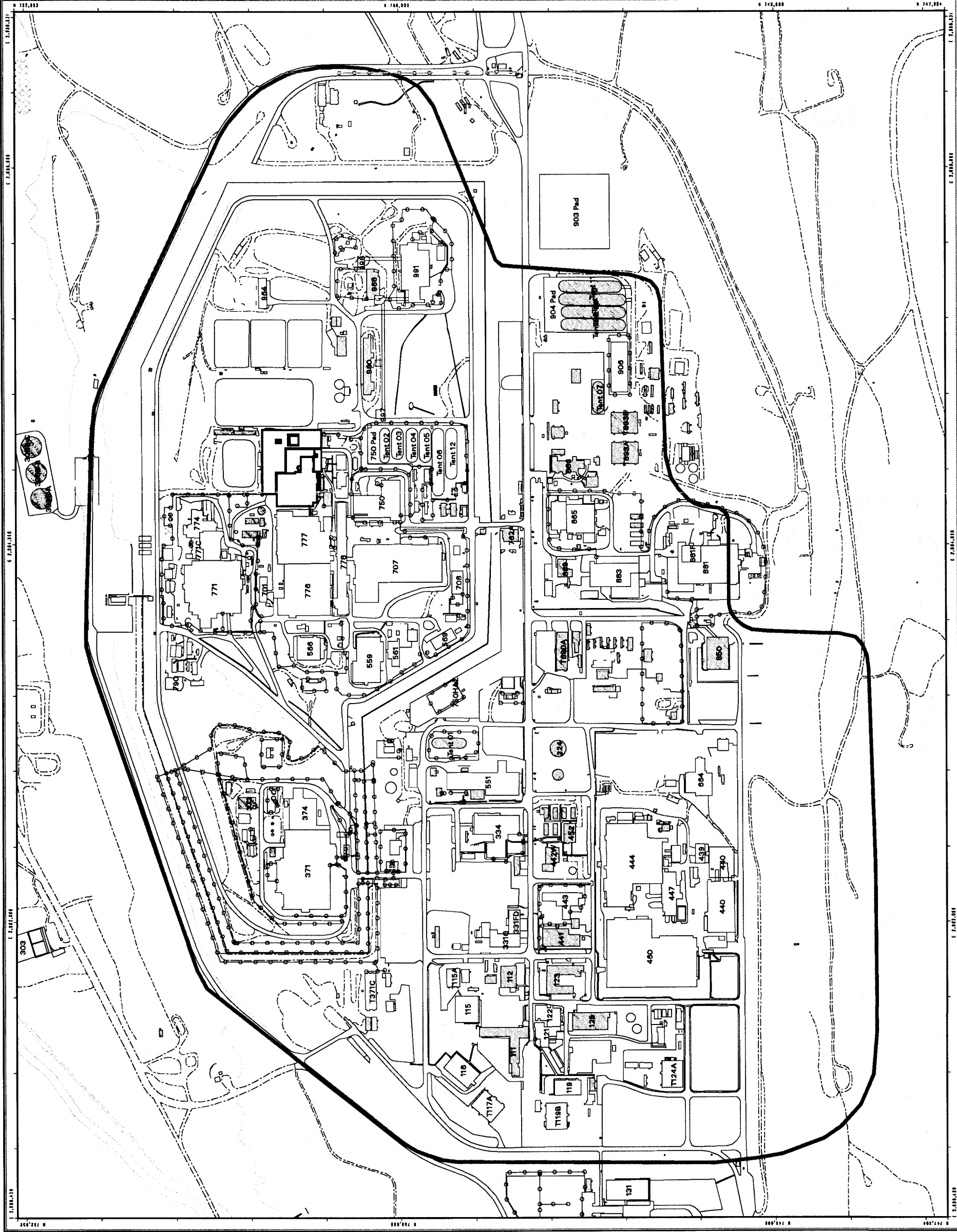


Figure 2

KEY

PAC 700-1105

Tanks

✓
CPWI

NPWL

1100 120

	C	
	S	
	L	
	V	
	O	
	G	
=		

111

0.001 130.8

UBC 779

Storm Line

0

DEVELOP

Standing Bid:

Paved Road

7
7
0
1
2



100	0	100 Feet
-----	---	----------

Scale = 1:1.500

State Plane Coordinate Projection

Colorado Central Zone

U.S. Department of Energy

Prepared by:

Prepared for:

RADMS[®]

10

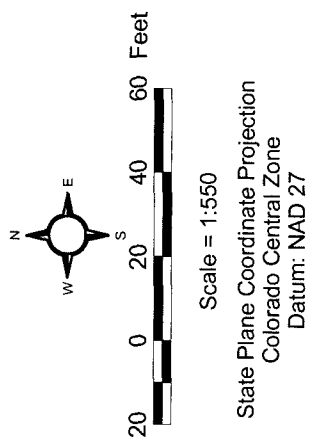
HAUSER & HILL
COMPANY

File: 700-7 Char-gk.apr Date: 07/25/03

Figure 3
FY04 Sampling Locations for IHSS Group
700-7 (UBC 779, IHSS 700-138,
IHSS 700-150.6, IHSS 700-150.8,
PAC 700-1105, and OPWL Tanks
19, 20 & 38)

KEY

- Biased Sampling Location
- Statistical Sampling Location
- UBC 779
- IHSS
- PAC
- Transferred AOC
- Approximate location of Auxiliary Pond 2
- Trench
- Original Waste Process Line
- New Process Waste Line
- Storm drain
- Sewer line
- Paved area
- Dirt road
- Streams
- Demolished building
- Standing building
- Solar Pond AOC



U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by:

Prepared for:

RADMS
RADICAL ANALYTICAL DATA MANAGEMENT SYSTEM

KAISER HILL
COMPANY

File: characterization-gk.apr Date: 07/10/03

